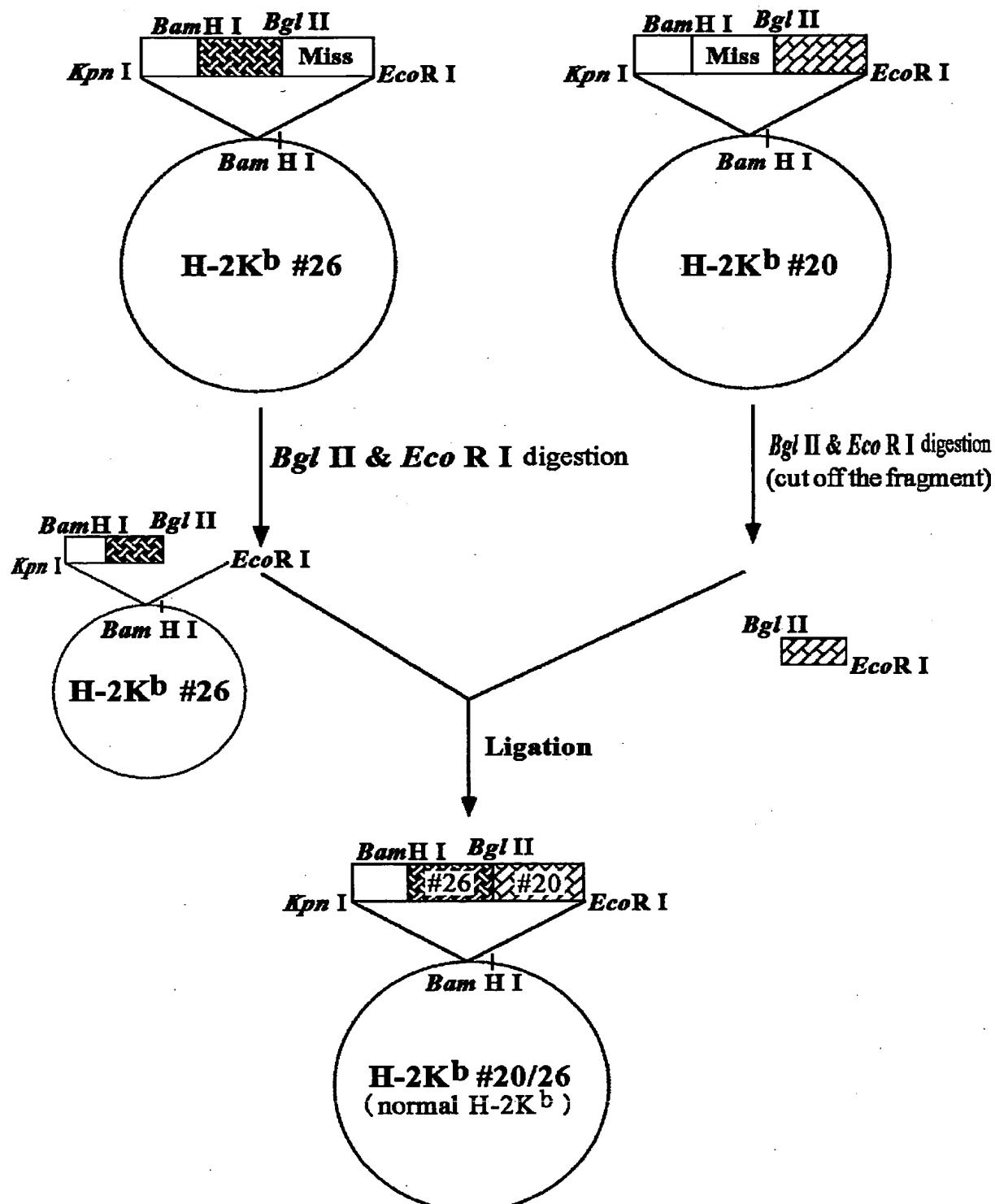
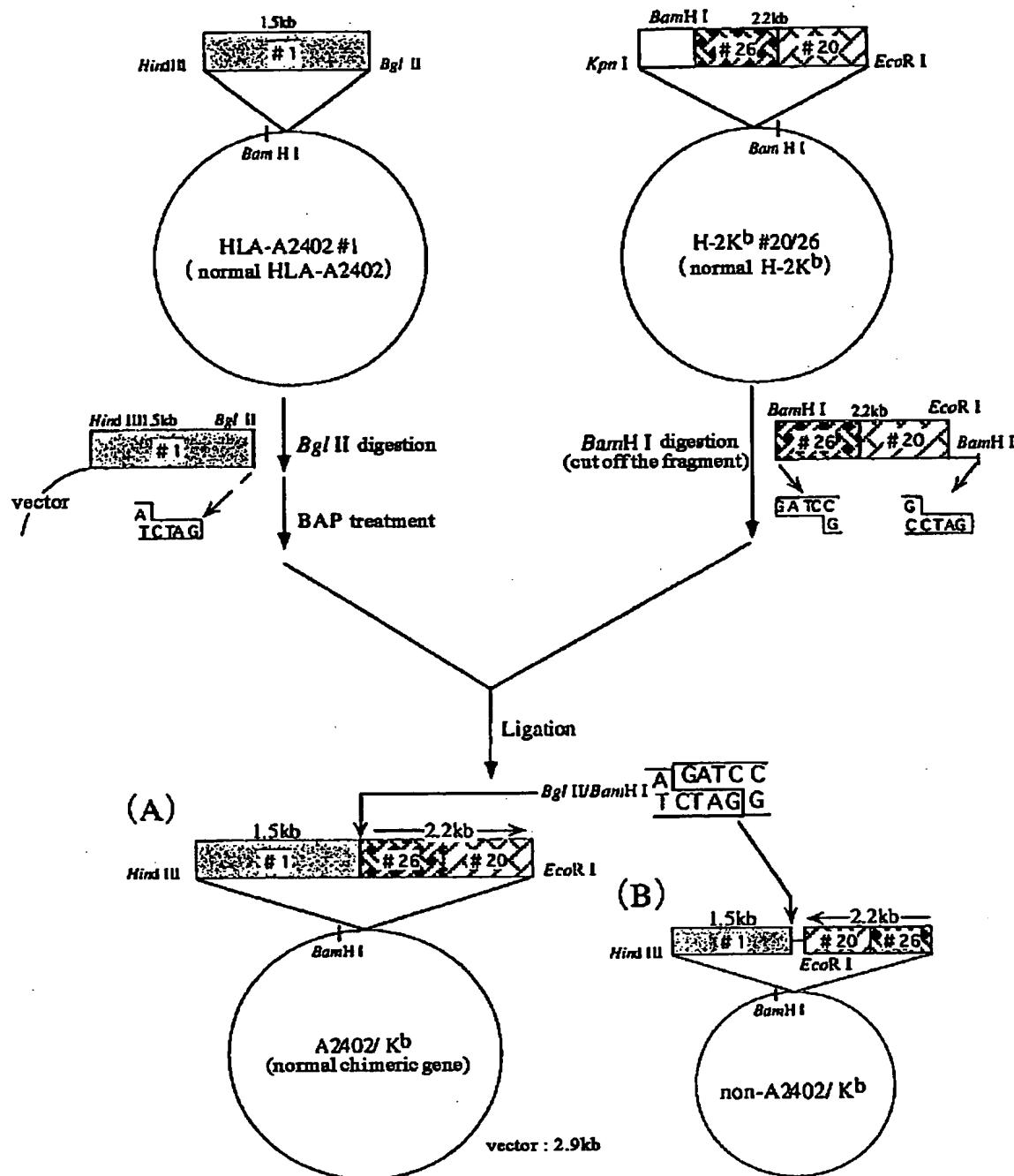


Fig. 1



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Fig. 2



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Fig. 3

HLA-A2402/Kb genome	AAGCTTACTCTTGGCCAA AACTCCATGG GATGATTTTT CTCTAGAAG AGTCAGGTG GACAGGTTAG GAGTGGGAGT CAGGGAGTC AGTTCAGGA	100
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	CAGAGATTC GGGTAAAGAAA CTGAAGGG AGGGAGGG CCATGCCGA GGTTTCTCC CTGTTCTTC AGAACCTCT TGGCCAAA TTCAAGGAGA	200
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	CATGGAGACA GACCGCTTGG CACAGAGGA GAGGGTCA GCGGAAGTC CAGGGAGTC AGGGGGCTC TCAAGGCTC AGGGCCGAA GCGGGTGTAT	300
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	GGATTGGGA GTCGGAGCC TGGGATTC CCAACTCGC AGTTCTTTT CTGCTCTCC CAACCTATGT AGGGCTCTC TCTCTGATA CTCAAGGAGC	400
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	GGACCAAGTT CCACTCTCA TTGGGTTGGG CTGTCAGA GAACCAATC AGTTCAGTC AGTTCAGTC CGTTCGCTGT TCTAAAGTC GCACGGACCC ACCGGAGTC	500
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	AGATTCTCC CAGACCCGA GATGGCCCTT CTTGGCTACT CGAGGGCC CTGGCCCTTA CGGAGGCTCA CGGAGGCTGAG GCGAGGCTGAG	600
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	TGGGGCTGG GAGGGAAAC GCGCTCTGG GGGAGAAGCA AGGGCCCGC CTGGGGGG CGAAAGACCC CGGGAGAGA CGGGGGCG	700
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	GTCTCTAGCC ACTCTCTGCG CCACATCTGA GGTATTCTC CAATCCCTG TCCGGACCG CGGGGGAA CGCCGCTTC ATGGCGCTG	800
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	CTTACCTGGA CGACACGAG TTAGCTCTGCT TCAAGAGGA CGGGCGAGC CAAGAGTGG AGGGGGGG CGGGGGAA CGCCGCTTC ATGGCGCTG	900
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	TGGGGAGAG GAGACAGGA AGTGAAGGC CCACTCTAG AGAACCTCG GATGGGGCTC CGTACTTAA ACCAGAGGA CGCCGCTGAG	1000
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	TGACCGGGC CGCGGGGA GTCAGGACC CCTCATCCCC CAAGGAGGG CCGGGTGCC CAAGCTCC GCGTCGAGA TCCACCCGA AGCCCGGG	1100
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	CCCCGAGACC CTGGCCCGG GAGAGGCCA GGGCTTAA CCCGGTTCA TTTCAGTTT AGCCAAAAA TCCCCGGG TGGTGGGG CGGGCGGG	1200
HLA-A2402/Kb cDNA	-----	-----
HLA-A2402/Kb genome	CTGGGGGAC TGGCTGACC GGGGGTGG GCGGAGCTTC CAGATGATGT TGGCTCTCGA CGGGGGCTC GGGGGGGT TCCCTGGG	1300
HLA-A2402/Kb cDNA	-----	-----

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Fig. 4

HLA-A2402/1kb genome	CTTACCCAG TAGCCCTACG ACCGCAAGGA TTA CACCGC ACCGGCGT CGAGAGAGG ACCGGCGT TGGACCCGG CGGACATGG CGGCTAGT CACCAAGGCC	1400
HLA-A2402/1kb cDNA	CTTACCCAG TAGCCCTACG ACCGCAAGGA TTA CACCGC ACCGGCGT CGAGAGAGG ACCGGCGT CGGCTAGT CACCAAGGCC	597
HLA-A2402/1kb genome	TAATGGAGG CGGCCATGT CGGGGGCG CGAGAGGCTT ACCCTGGGG CACCTGGGGT GACGGCGT CGAGAGAGG ACCGGCGT TGGACCCGG CGGACATGG CGGCTAGT CACCAAGGCC	1500
HLA-A2402/1kb cDNA	TAATGGAGG CGGCCATGT CGGGGGCG CGAGAGGCTT ACCCTGGGG CACCTGGGGT GACGGCGT CGAGAGAGG ACCGGCGT TGGACCCGG CGGCTAGT CACCAAGGCC	607
HLA-A2402/1kb genome	TGAGGCGAC GGTAACTAGG GCGCACGGG CGCCCTACG ATGCGCTGTA GATCCCTGTG GACGACCTG TACCTGTCC CGCAAGGTCG GGTAGAGG GGTAGAGG AGTGTAGCTG	1600
HLA-A2402/1kb cDNA	TGAGGCGAC GGTAACTAGG GCGCACGGG CGCCCTACG ATGCGCTGTA GATCCCTGTG GACGACCTG TACCTGTCC CGCAAGGTCG GGTAGAGG GGTAGAGG AGTGTAGCTG	619
HLA-A2402/1kb genome	GTGATTTCT CGGCTACAC ACTTGTAGT GGCTGTTAC TGGACTGAC AGTGAATGTT GTGAGAGG GGTAGAGG GGTAGAGG AGTGTAGCTG	1700
HLA-A2402/1kb cDNA	GTGATTTCT CGGCTACAC ACTTGTAGT GGCTGTTAC TGGACTGAC AGTGAATGTT GTGAGAGG GGTAGAGG GGTAGAGG AGTGTAGCTG	619
HLA-A2402/1kb genome	CACCTCCAG GATCATACG CCCTTAATT AAATGAACT CAAACACATA TPAATAGT TATTTTCAT TCCCTCTCC ATTCCTGAC TACCTCTTC	1800
HLA-A2402/1kb cDNA	CACCTCCAG GATCATACG CCCTTAATT AAATGAACT CAAACACATA TPAATAGT TATTTTCAT TCCCTCTCC ATTCCTGAC TACCTCTTC	619
HLA-A2402/1kb genome	ATCTATTGA ACATCACATA AGGTGGCCA TGTGTACCA ATGGCTCATG TGTATCCCT CTAGCTCT GAGTCCAA AGAAATGTC CAGTCCTG	1900
HLA-A2402/1kb cDNA	ATCTATTGA ACATCACATA AGGTGGCCA TGTGTACCA ATGGCTCATG TGTATCCCT CTAGCTCT GAGTCCAA AGAAATGTC CAGTCCTG	619
HLA-A2402/1kb genome	CTGAGGGAC CACCTCTCTT TTGGCTCATG AGTGGGATCA CAGTTGAGT GTGAAGAGA CACATAGTC ACTGCTGCA TGTATTAAC TGTGCTCTG	2000
HLA-A2402/1kb cDNA	CTGAGGGAC CACCTCTCTT TTGGCTCATG AGTGGGATCA CAGTTGAGT GTGAAGAGA CACATAGTC ACTGCTGCA TGTATTAAC TGTGCTCTG	619
HLA-A2402/1kb genome	GTAGATTTCA GTTGTCTCTG TTAATGCTG TATTTCTAA ATCTCCAA CAGTTGCCA AAGGGCCAT GTGACCCAT AGGGGAGC TGAATATAA ATTTGCCA AAGGGCCAT GTGACCCAT AGGGGAGC TGAATATAA	2100
HLA-A2402/1kb cDNA	GTAGATTTCA GTTGTCTCTG TTAATGCTG TATTTCTAA ATCTCCAA CAGTTGCCA AAGGGCCAT GTGACCCAT AGGGGAGC TGAATATAA ATTTGCCA AAGGGCCAT GTGACCCAT AGGGGAGC TGAATATAA	666
HLA-A2402/1kb genome	GTGACCTGA GTGGCTGCC CGGGCGT TACCCCTGCTT ACATCACCT GACCTGTCTG ACATCACCT GACCTGTCTG AGGAGCTAT CGAGGCTAT GAGCTGTG	2200
HLA-A2402/1kb cDNA	GTGACCTGA GTGGCTGCC CGGGCGT TACCCCTGCTT ACATCACCT GACCTGTCTG ACATCACCT GACCTGTCTG AGGAGCTAT CGAGGCTAT GAGCTGTG	766
HLA-A2402/1kb genome	AGGCTAGGCC TCAAGGGAT GGAACTTCAC AGAGTGGCTG GTGGCTCTG GAAAGAGCA GAAATACCA TGGCTCTGT ACCCATGGG AGGCTAGGCC TCAAGGGAT GGAACTTCAC AGAGTGGCTG GTGGCTCTG GAAAGAGCA GAAATACCA TGGCTCTGT ACCCATGGG	2300
HLA-A2402/1kb cDNA	AGGCTAGGCC TCAAGGGAT GGAACTTCAC AGAGTGGCTG GTGGCTCTG GAAAGAGCA GAAATACCA TGGCTCTGT ACCCATGGG	866
HLA-A2402/1kb genome	GGCTGCTGAG CCCTCAACC TGAATGGGG TACGGAGGT GTGGGTGAG AGCTGGGGT AGGAAAGGT GGAGCTTCT GCAAGCCCTG AGCTCTGAG	2400
HLA-A2402/1kb cDNA	GGCTGCTGAG CCCTCAACC TGAATGGGG TACGGAGGT GTGGGTGAG AGCTGGGGT AGGAAAGGT GGAGCTTCT GCAAGCCCTG AGCTCTGAG	895
HLA-A2402/1kb genome	GCTCTGACG TGGGTCTAC ACCCTCACT TCATTTCTG TACCTGTCTT TCCAGAGCC 'TCCTCTAACCC ACTGCTCA ACATGGGAC CGTTGCTGTT AGCC TCTCTAACCC ACTGCTCA ACATGGGAC CGTTGCTGTT	2500
HLA-A2402/1kb cDNA	GCTCTGACG TGGGTCTAC ACCCTCACT TCATTTCTG TACCTGTCTT TCCAGAGCC 'TCCTCTAACCC ACTGCTCA ACATGGGAC CGTTGCTGTT	939
HLA-A2402/1kb genome	CTGGTGTGCTC TTAGGGCTGC AATGGTCACT GGAGCTTGG TGGCTCTGT GATGAGGATG AGAAGGAGA ACAGCTGTAG GAAGGGAG AGTGTAGTT	2600
HLA-A2402/1kb cDNA	CTGGTGTGCTC TTAGGGCTGC AATGGTCACT GGAGCTTGG TGGCTCTGT GATGAGGATG AGAAGGAGA ACAGCTGTAG GAAGGGAG AGTGTAGTT	1015

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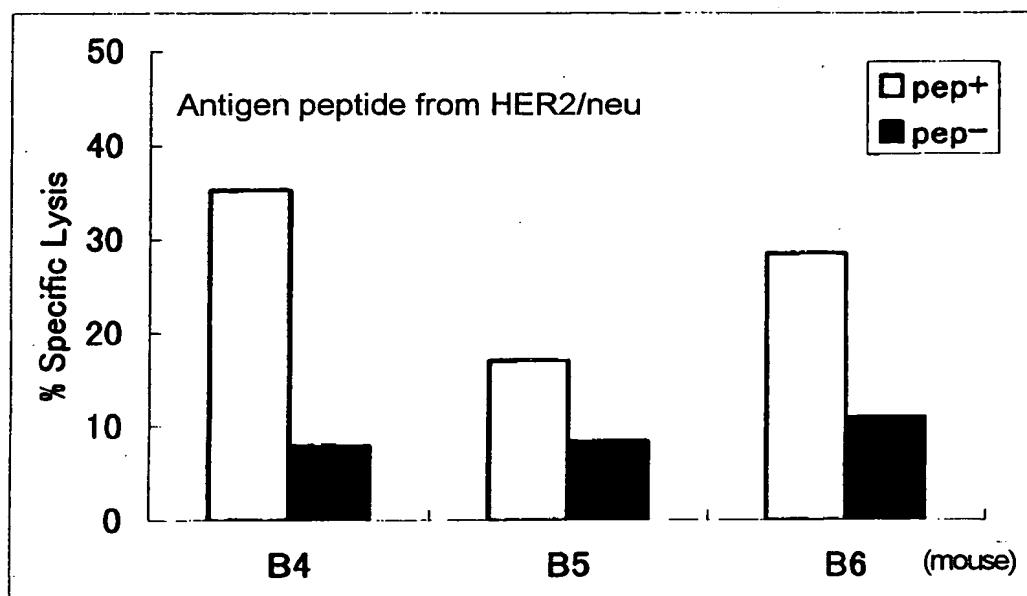
Fig. 5

HLA-A2402 /kb genome	TTCTCTAGC CTCCCTTAGA GTCCTCTCTG CTCATCAATG GGGACACAG GCACACCCA CATTGCTACT GTCCTACT GGTCTCTGCTG TGAGTCCTG	2700
HLA-A2402 /kb cDNA	-----	1015
HLA-A2402 /kb genome	GAACCTCTTA GTCTCAAGAT CTTCCTGGAA CTCTCACAGC TTTCCTCTC ACAGCTGAA AACGAGGGAA CTTCCTCTG GTCCTCTGTT AGTGTGGAA	2800
HLA-A2402 /kb cDNA	-----	1048
HLA-A2402 /kb genome	CAGAGTGTG CTGGGGACAT TGGAGTGAAG TGGAGCTCT GGAATCCAT AAATGCTCTT GGAATCCAT CTCAGAAT CTCAGGTT CTCAGGTT	2900
HLA-A2402 /kb cDNA	-----	1048
HLA-A2402 /kb genome	CCCCTGAAT GAATATGTCAC ATGATACATAT GCAATATCAT TTGTTTCTT TTACCTGAG GTCCTCTGCTG TGAGTCCTG TGAGTCCTG	3000
HLA-A2402 /kb cDNA	-----	1087
HLA-A2402 /kb genome	GACACCTAG GTCCTGATTG GGGAGGCCA ATGGGACAT GATTCGTTT CAGAACTCC CAGAACTCC CAGAACTCC TGAGTCCTG TGAGTCCTG	3100
HLA-A2402 /kb cDNA	-----	1087
HLA-A2402 /kb genome	GTCCTACAG TGTAGCTCTA TGTACCTCTAT TCTCTAGGT GAAAGACCT GCTCTGAGT GACTTGGTA CAGACAACTG CTCCTCATAT CTCTCTGAC	3200
HLA-A2402 /kb cDNA	-----	1119
HLA-A2402 /kb genome	ATCCAGAGC CTCACTCTC TTTCAGAG TGTCCTGAGT TCCCTGACT CTAATGAGA AGCTTGGAG CCACCTCCAC CCCTCTGAC	3300
HLA-A2402 /kb cDNA	-----	1119
HLA-A2402 /kb genome	CAGGACCCCT TCCCCTGACT GTCCTGCTT CCCTCTCACA GCAACCTTG CTGGTTAGC CAAACACTG GGGAGCTTG TAGCTCTCA GCTCCATCT	3400
HLA-A2402 /kb cDNA	-----	1119
HLA-A2402 /kb genome	ACCCCTGACTT GGAACCTCTC ACTTCACAC TAGAAATAAT AATTCGATG TACCTGTAT TCTTATCATC TGACCTAGT GCTCTATCT TGTTAATTTC	3500
HLA-A2402 /kb cDNA	-----	1119
HLA-A2402 /kb genome	ATGGATTGAG AATGCTTGAAG GGTGTTGTT GTTGTGTTGA TTGTTGAGA AATAATGAT AGATGAATAA ACTTCAGAA TCTGGTGTAC	3600
HLA-A2402 /kb cDNA	-----	1119
HLA-A2402 /kb genome	TATGCTCTGT GTATGCTGTG GGACAGGATG AGACTGTAGTC AGCTGAGTGT GAACTGGCT GTCCTGAGT TGCTTGTATC TGTTATGGG	3700
HLA-A2402 /kb cDNA	-----	1119
HLA-A2402 /kb genome	CCACACCTTC ACCTGTCAC CTCTGGCTC TGTTCCCTCT ATGACTATGA GGCACATGCT GAGAGTTGT GGTCTAAAG ACAGAGGAA GGCTGAGCC	3800
HLA-A2402 /kb cDNA	-----	1119
HLA-A2402 /kb genome	TGGCGCTG CCACGAGTAA TGAGCCCCA GGCTAAAGA TGAGAGTC GGAATTC	3857
HLA-A2402 /kb cDNA	-----	1119

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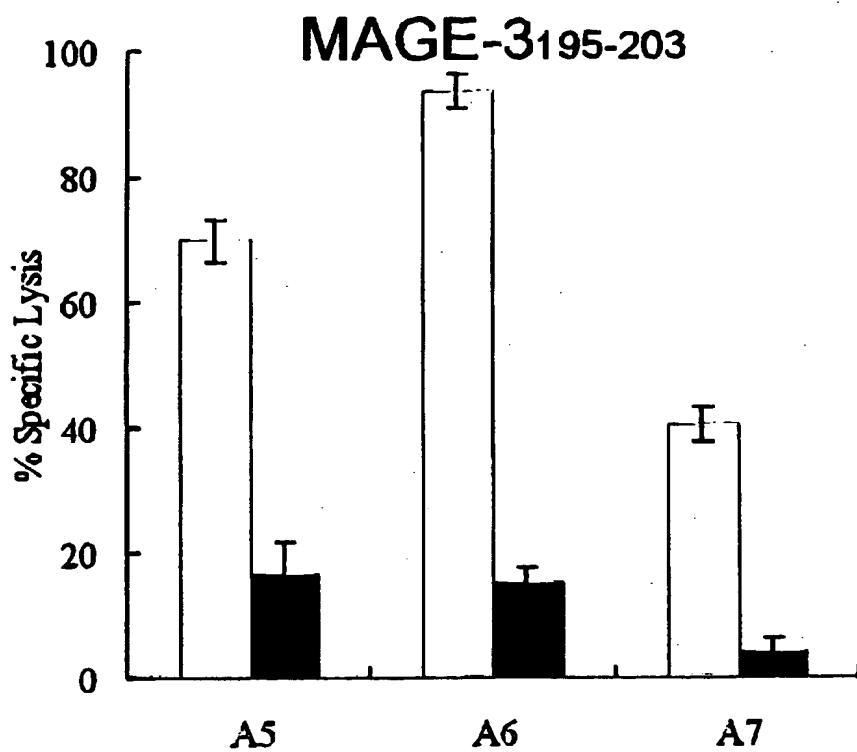
Fig. 6



10/517600

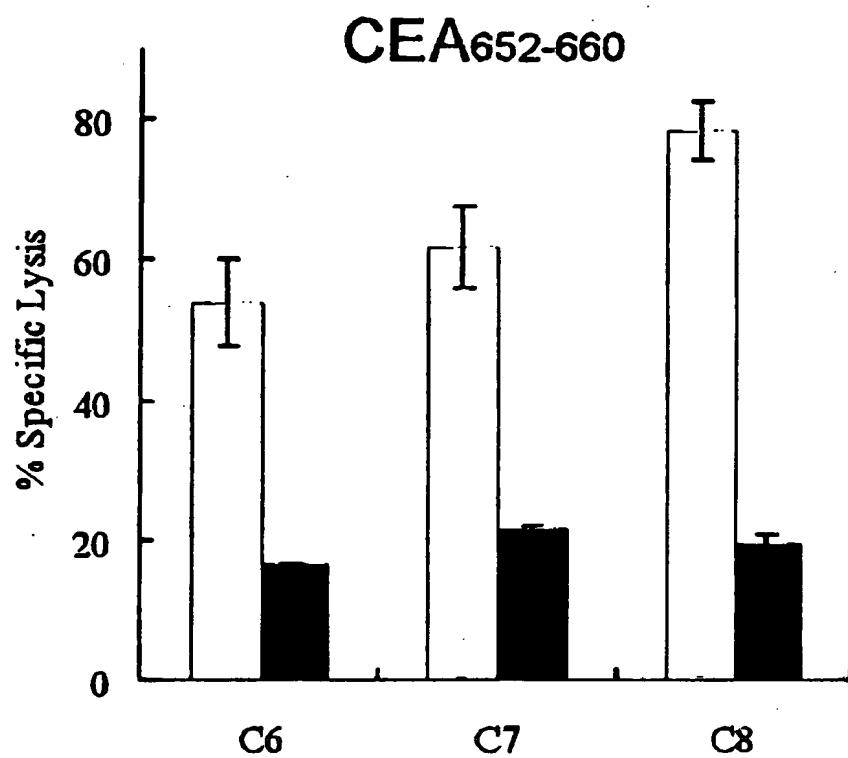
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Fig. 7



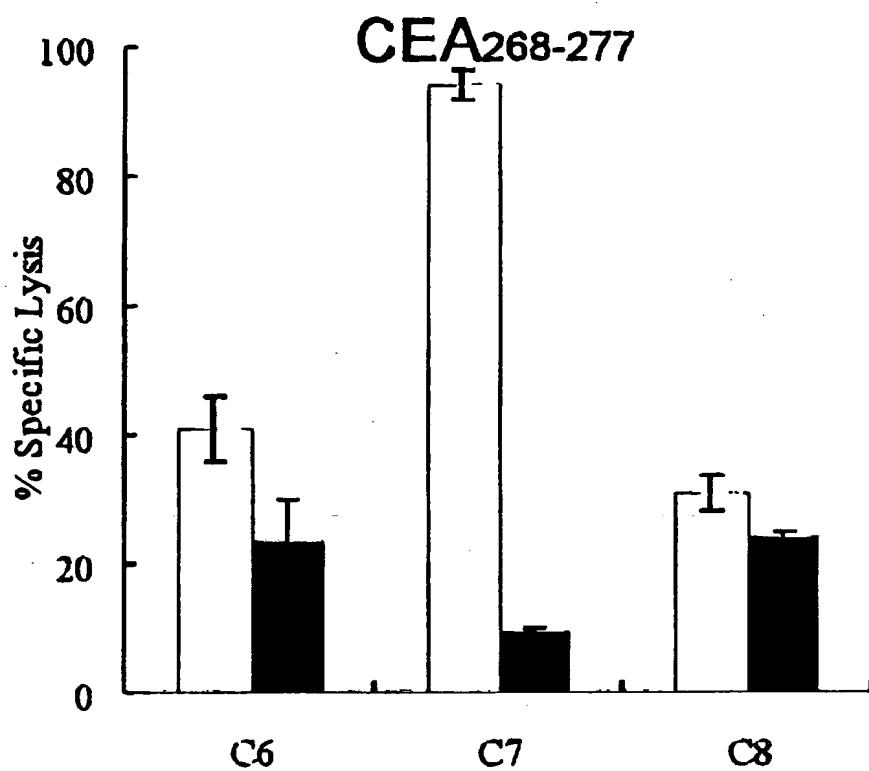
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Fig. 8



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Fig. 9



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Fig. 10

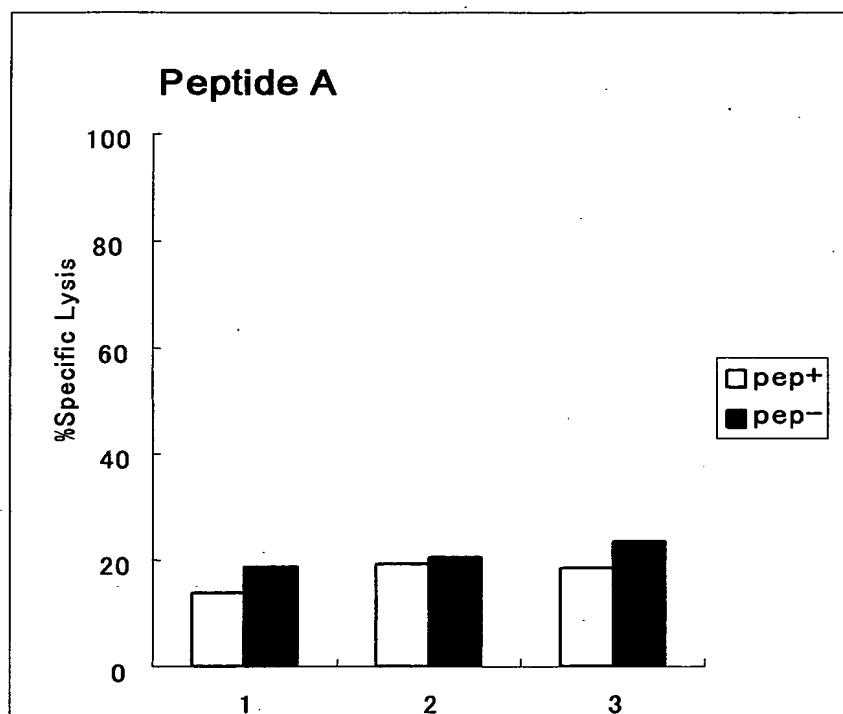
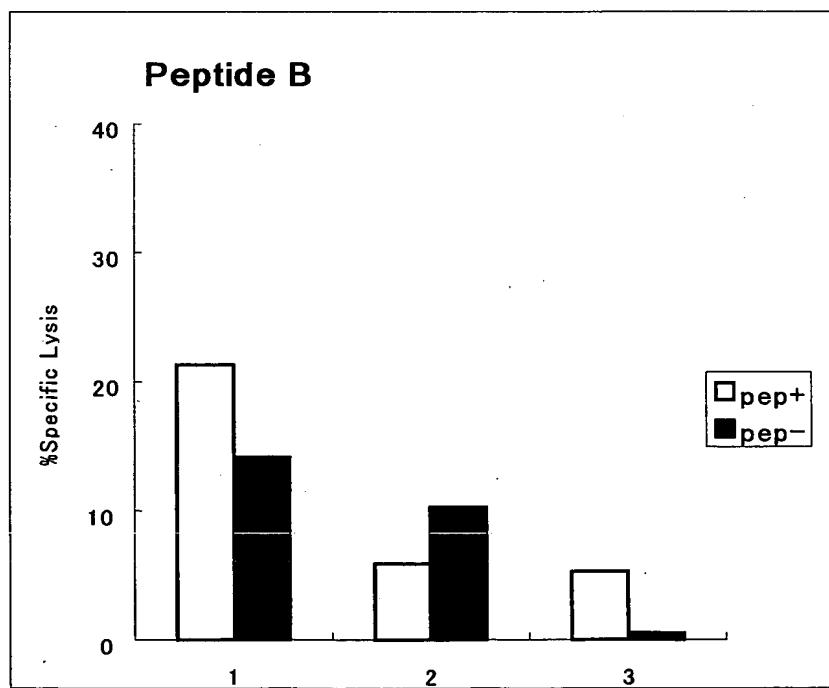


Fig. 11



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Fig. 12

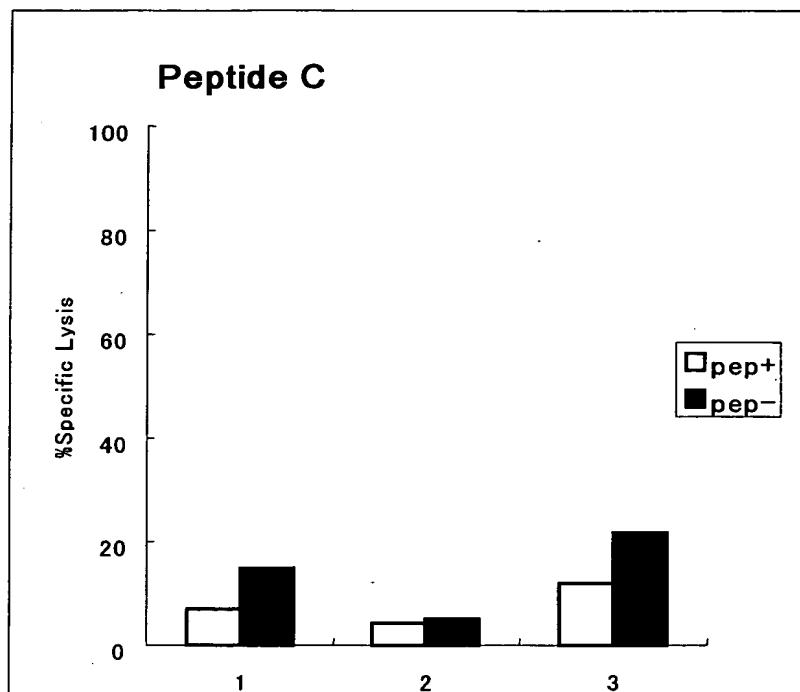
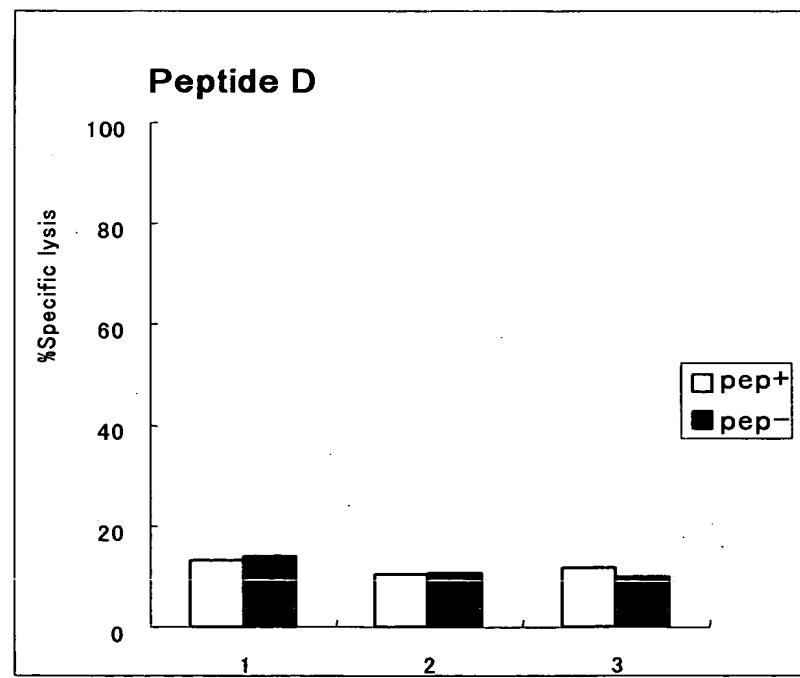


Fig. 13



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Fig. 14

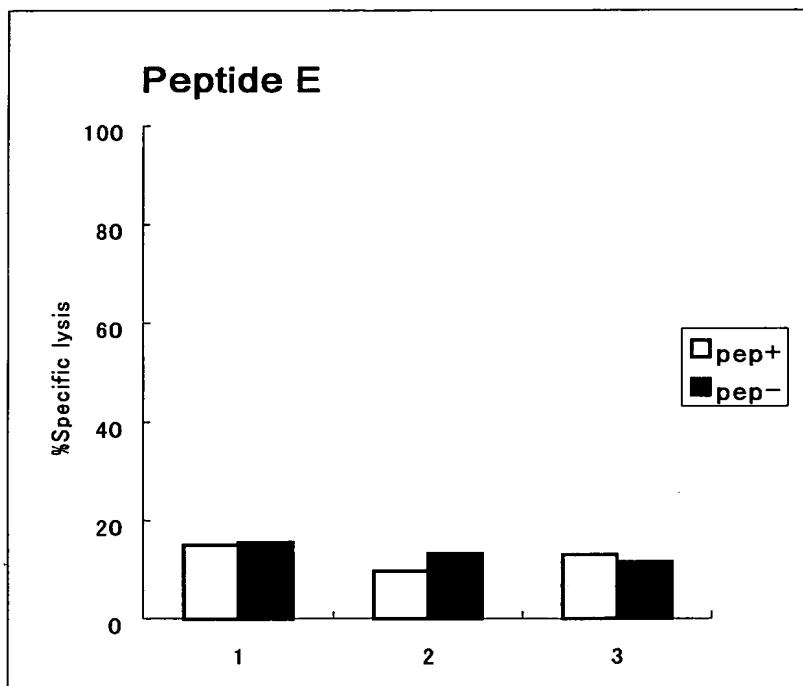
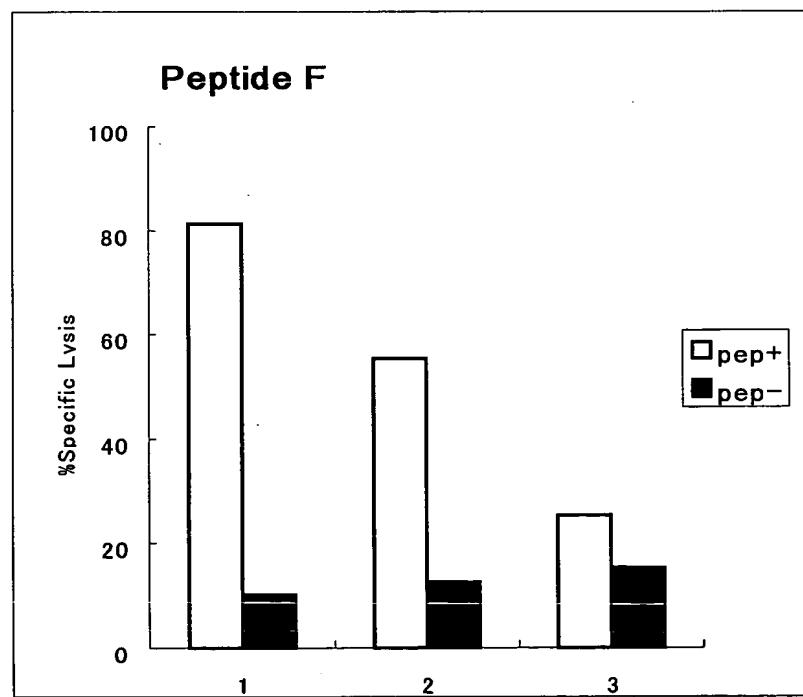


Fig. 15



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Fig. 16

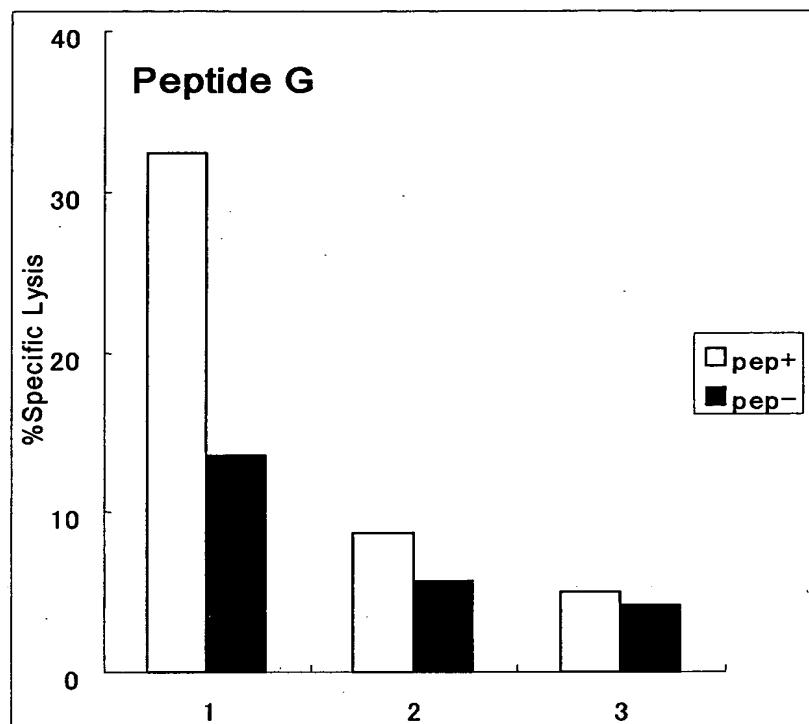
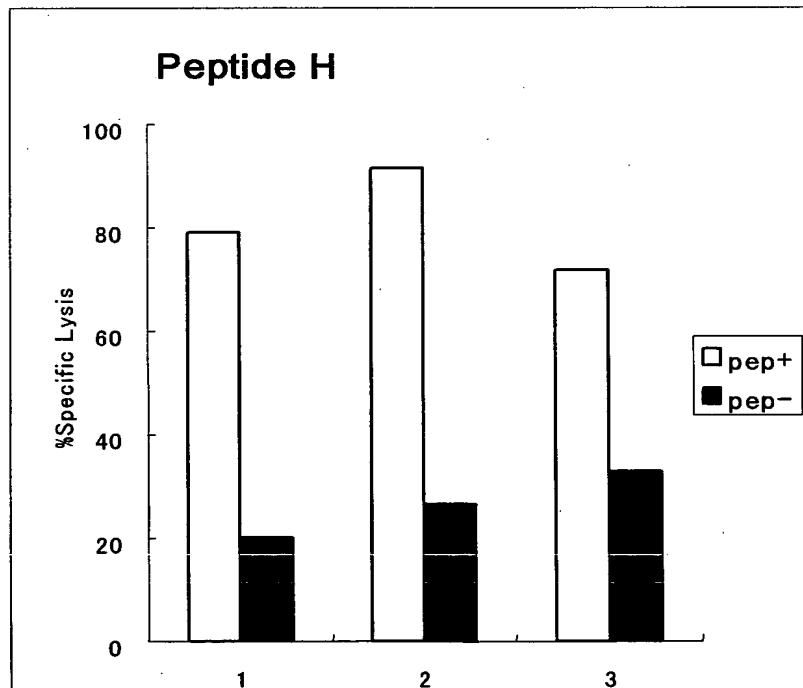
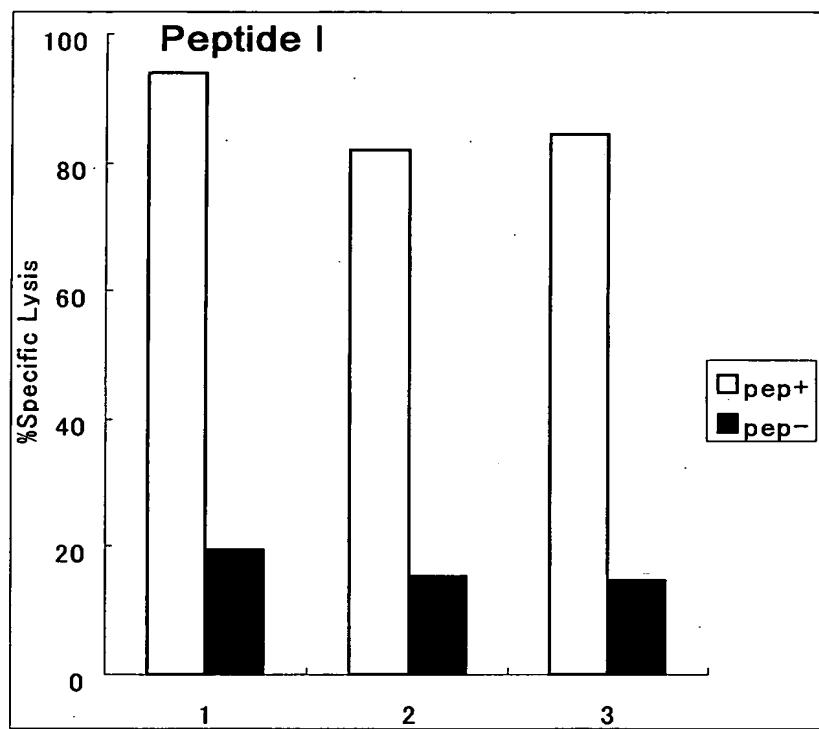


Fig. 17



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Fig. 18



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Fig. 19

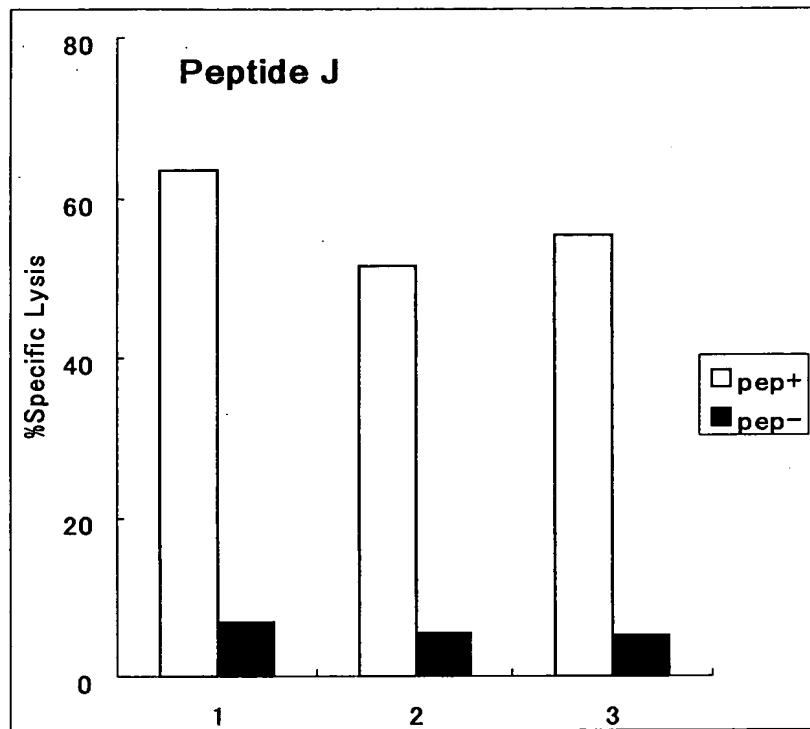
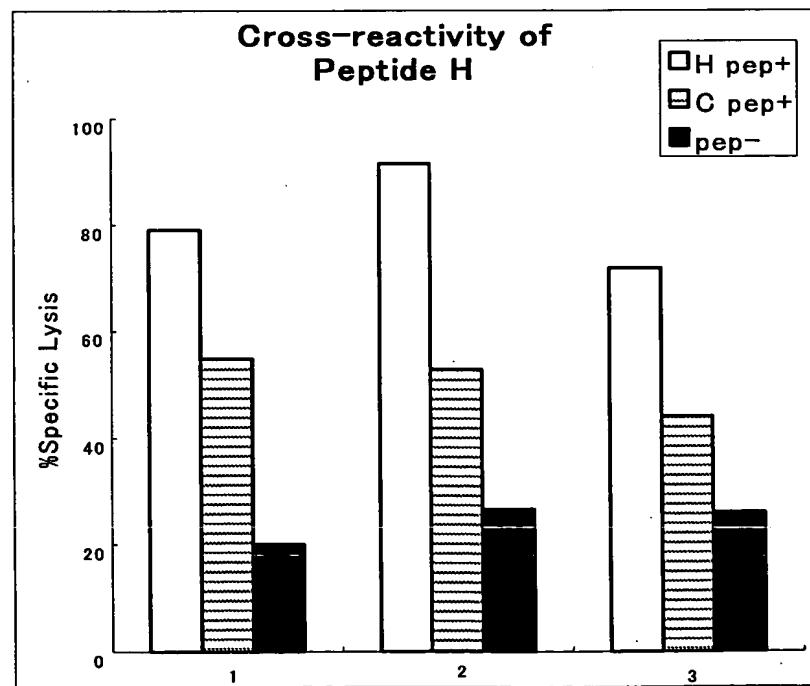


Fig. 20



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Fig. 21

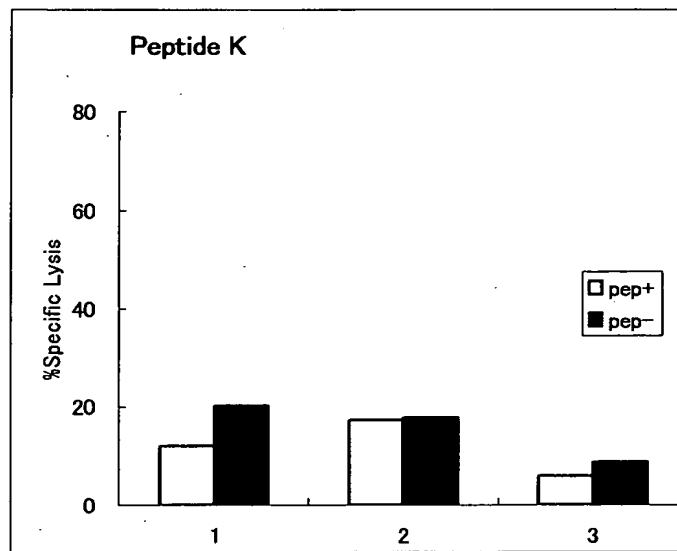
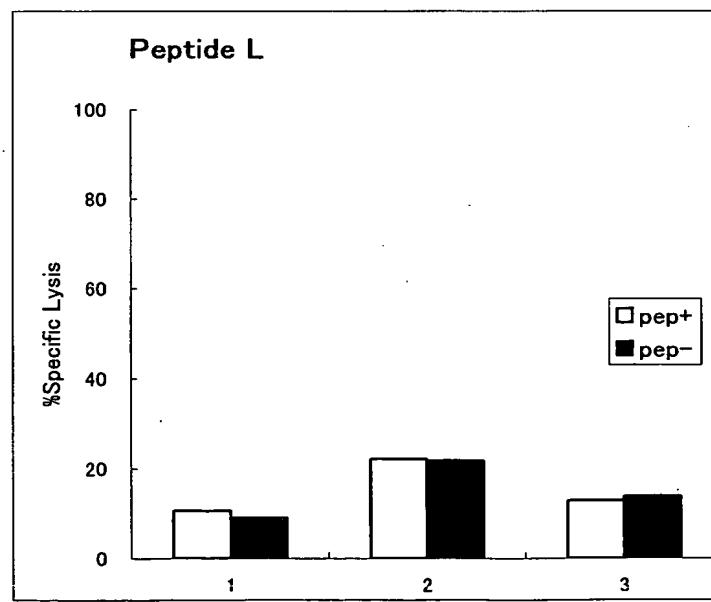
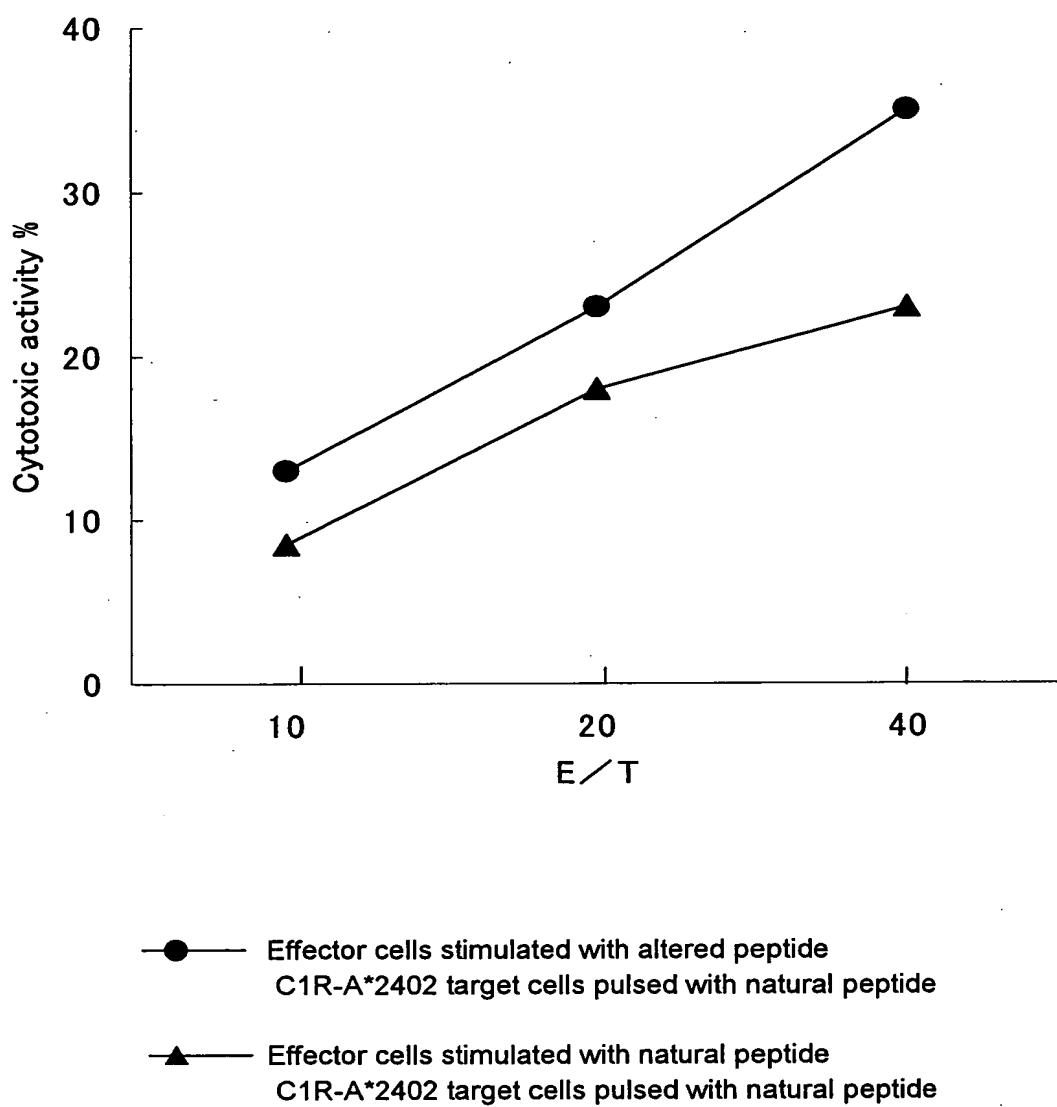


Fig. 22



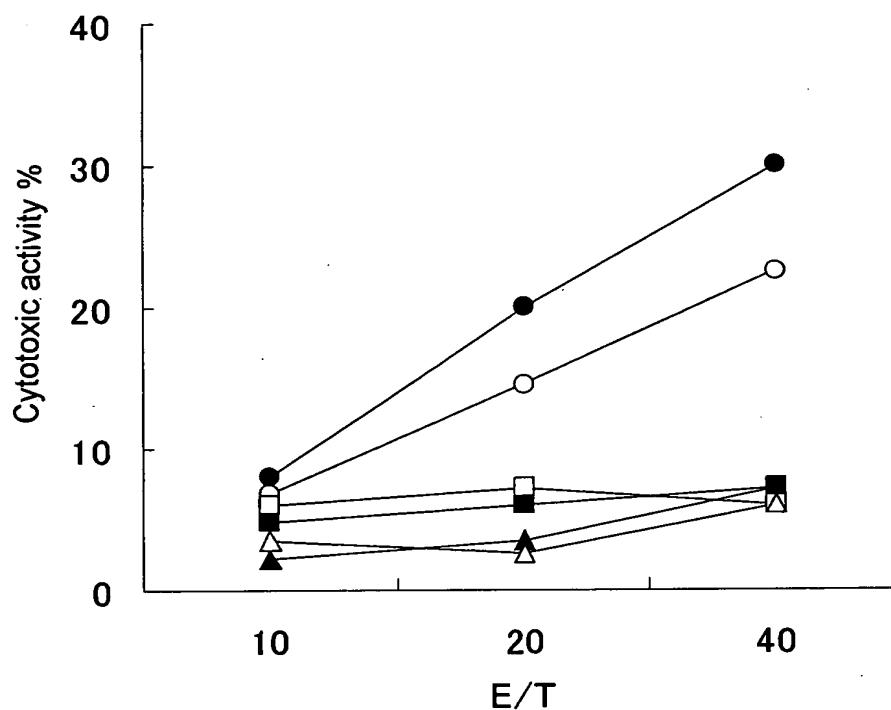
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Fig. 23



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Fig. 24



- Effector cells: Altered peptide - stimulated
Target cells: RERF-LC-A1 cells (WT1 positive, HLA-A2402 positive)
- ▲— Effector cells: Altered peptide - stimulated
Target cells: LK87 cells (WT1 positive, HLA-A2402 negative)
- Effector cells: Altered peptide - stimulated
Target cells: 11-18 cells (WT1 negative, HLA-A2402 positive)
- Effector cells: Natural peptide - stimulated
Target cells: RERF-LC-A1 cells (WT1 positive HLA-A240 2 positive)
- △— Effector cells: Natural peptide - stimulated
Target cells: LK87 cells (WT1 positive, HLA-A2402 negative)
- Effector cells: Natural peptide - stimulated
Target cells: 11-18 cells (WT1 negative, HLA-A2402 positive)

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Fig. 25

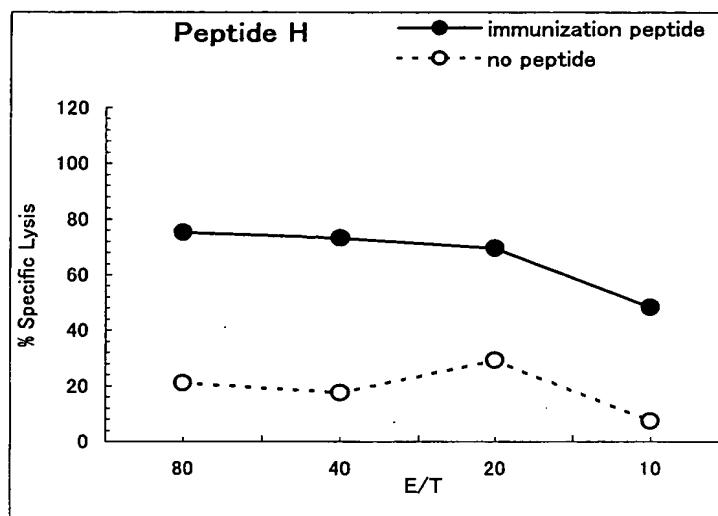
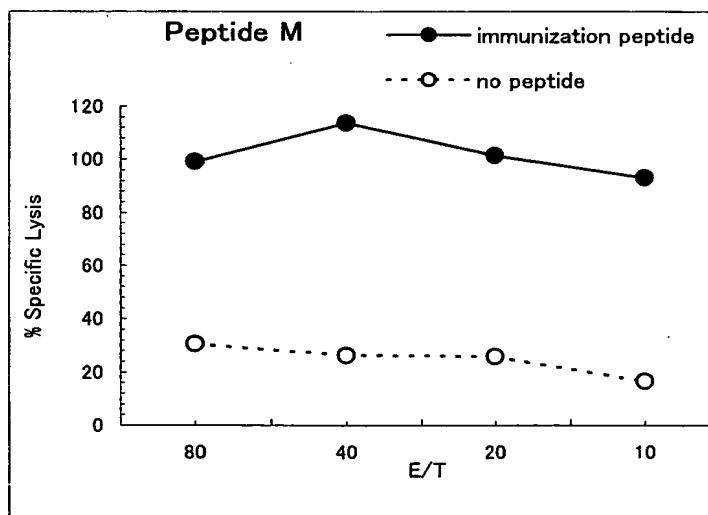


Fig. 26



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Fig. 27

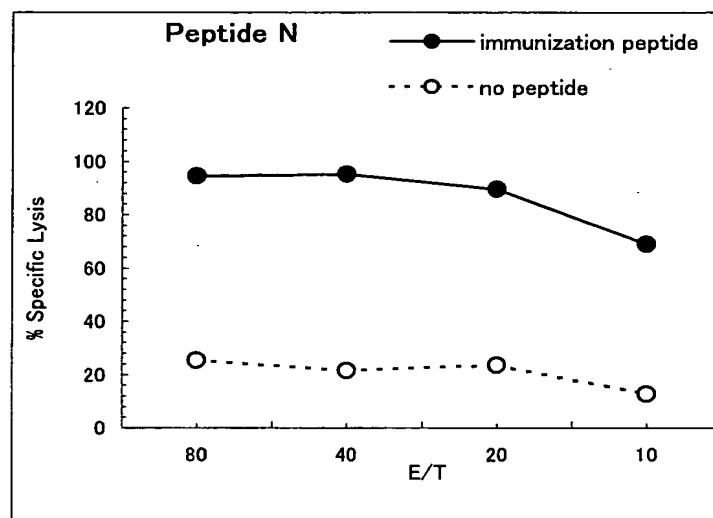
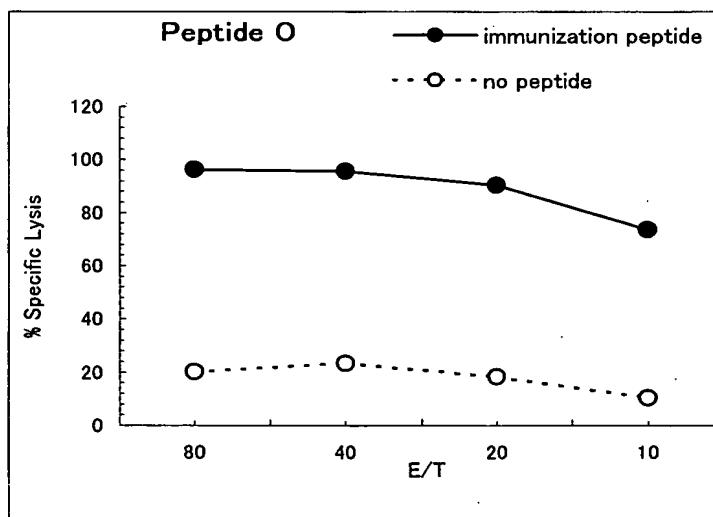


Fig. 28



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Fig. 29

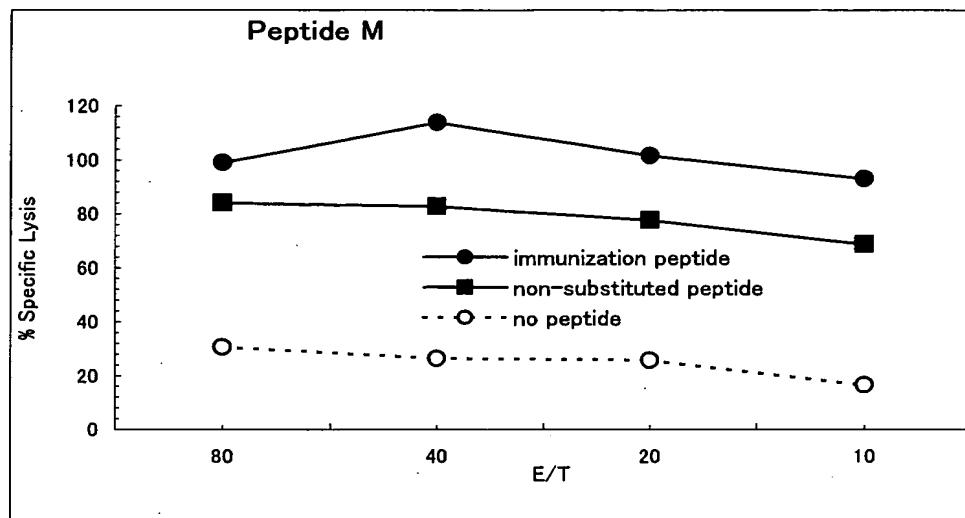


Fig. 30

